User's Manual

ZALMAN

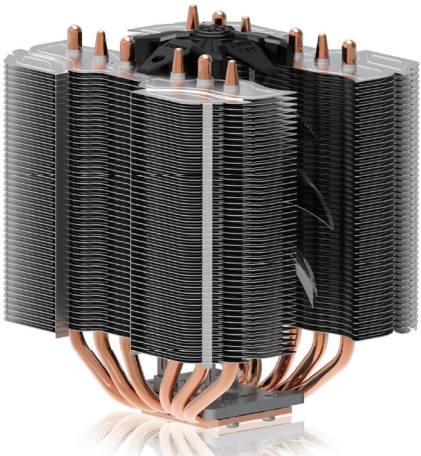
CNPS14X

Intel Socket 2011 / 1366 / 1156 / 1155 / 775 CPU

Core i7 Extreme	Core 2 Extreme	Pentium Dual-Core
Core i7	Core 2 Quad	Pentium D
Core i5	Core 2 Duo	Pentium 4
Core i3		Celeron D

AMD Socket FM1 / AM3+ / AM3 / AM2+ / AM2 CPU

Zambezi	Athlon II	Opteron Dual-Core
Llano	Athlon X2	Opteron
Phenom II	Athlon FX	Sempron
Phenom	Athlon	



To ensure safe and easy installation, please read the following precautions.

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1. Precautions

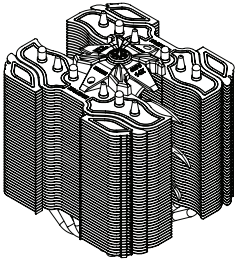
1) Avoid inserting objects or hands into the fan while it is in operation to prevent product damage and injuries.
2) Do not ingest the Thermal Grease, and avoid its contact with skin and eyes. If contact is made with skin, wash off with water. If ingested or irritation persists, seek medical attention.
3) To prevent possible injuries, gloves must be worn while handling this product.
4) Excessive force exerted on the fan may cause damage to the fan and/or system.
5) Use and keep the product away from reach of children.
6) Check the components list and condition of the product before installation. If any problem is found, contact the retailer to obtain a replacement.
7) Zalman Tech Co., Ltd. is not responsible for any damaged due to overclocking.
8) During transportation of the system, the cooler must be removed. Zalman is not responsible for any damages that occur during the transport of a system.
9) Product design and specifications may be revised to improve quality and performance.

Disclaimer) Zalman Tech Co., Ltd. is not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

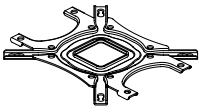
2. Specifications

Spec. \ Model		CNPS14X
Material		Pure Copper and Aluminum
Weight		875g
Dimensions		140(L) x 126(W) x 159.3(H) ㎜
FAN	Bearing-Type	Long Life Bearing
	RPM	950 ~ 1,350rpm ±10%
	Noise Level	17 ~ 21dBA ±10%
	Voltage	12V
Thermal Grease [ZM-STG2M]	Contents	1g
	Temperature Range	-40˚C ~ +150˚C (-40˚F ~ +302˚F)

3. Components



Cooler

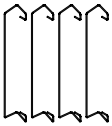


Backplate

Manual

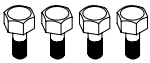
Nuts

Clip A

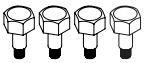


Clip B
(Optional Fan)

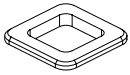
Side Caps



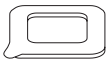
Silver Bolts A(4mm)
(Socket 2011)



Silver Bolts B(3mm)
(Socket 1366/1156/1155/775/AMD)

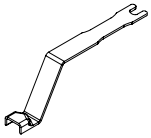


Loading Block



Double-sided Tape

Thermal Grease
(ZM-STG2M)



Spanner

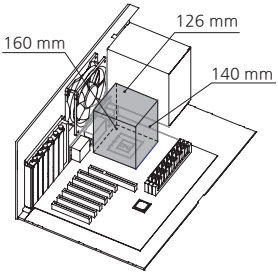
4. Installation Requirements

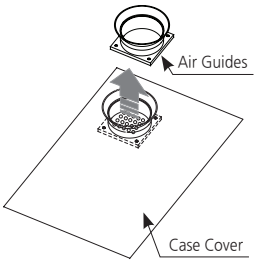
1) Space Requirements

The cooler's installation requires an unobstructed space of 140mm(length), 126mm(width), and 160mm(height), with the CPU as a central reference point. Please check if components such as ODDs and PSU protrude into the required space.

2) Air Guide Removal

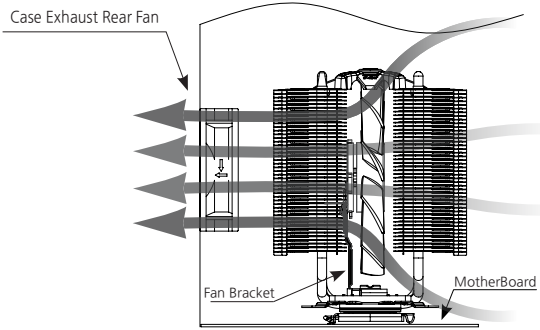
Air guides on enclosures must be removed before the cooler's installation since they protrude into the cooler's required space.





3) Cooler Orientation

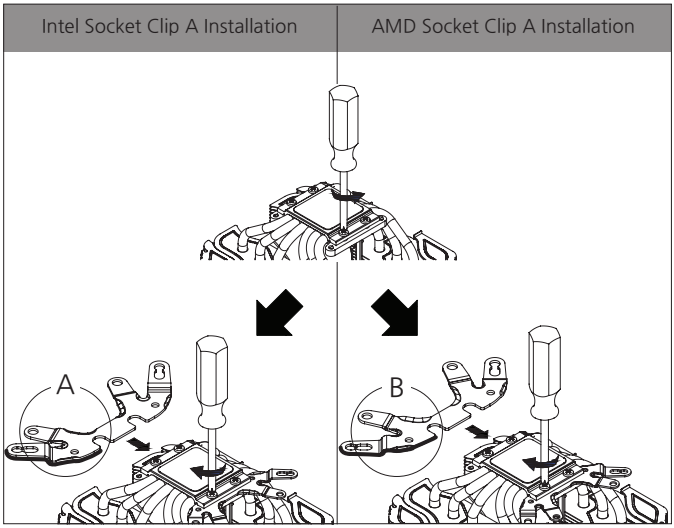
Install the cooler's fan bracket close to the rear fan of the case, so that the air passing through the cooler comes out through the rear fan of the case,as shown in the image.



5. Installation

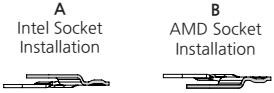
A. Clip A Installation

※ Install the clip A according to a user socket as shown in the image.
- Slightly loosen the bolts, insert the clip A between the cover and the base, and then fasten it with the bolt.



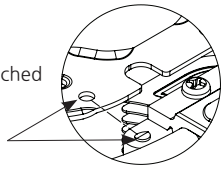
Caution

Please note that the connection directions of the clip A are different according to sockets.



Caution

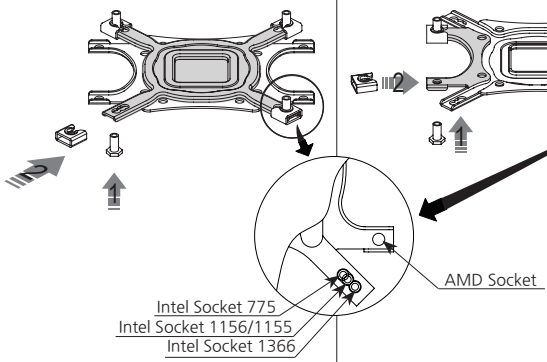
Make sure that the holes of the clip A are attached to the raised parts of the base cover.



B. Nuts and Side Caps

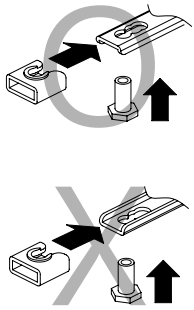
※ Intel Socket 2011 Installation does not require the Nuts and Side caps.

Intel Socket 1366/1156/1155/775	AMD Socket FM1/AM3+/AM3/AM2+/AM2
- Install Bolts to the Backplate according to the Socket Type and secure with Side Caps.	- Install Bolts to the Backplate according to the Socket Type and secure with Side Caps.



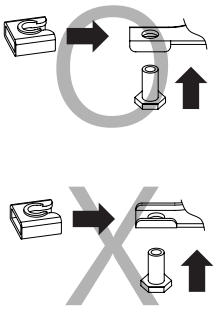
⚠ Caution

[Intel Socket]
Please note the insertion directions of the nut and side cap



⚠ Caution

[AMD Socket]
Please note the insertion directions of the nut and side cap

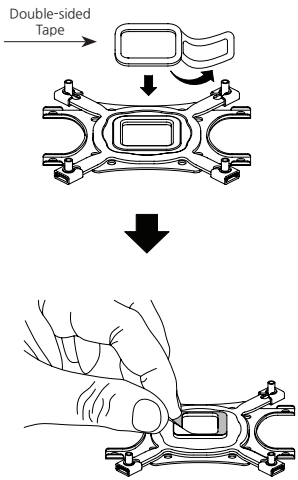


C. Double-sided Tape and Loading Block Installation

※ Intel Socket 2011 Installation does not require the Double-sided Tape and Loading Block.
※ Intel Socket 1366/1156/1155 Installation does not require the Loading Block.

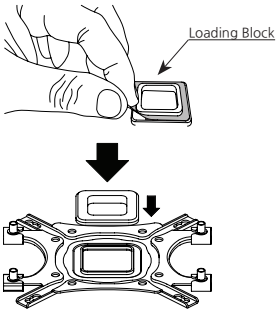
Intel Socket 1366/1156/1155

- Attach Double-sided Tape to the center of the Backplate and remove the Double-sided Tape's Cover.

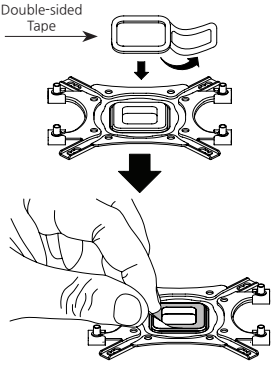


AMD Socket FM1/AM3+/AM3/AM2+/AM2
Intel Socket 775

① Remove the Sticker Cover from the Lower Tier of the Loading Block and attach it to the Backplate.



② Attach Double-sided Tape to the Loading Block and remove the Double-sided Tape Cover.

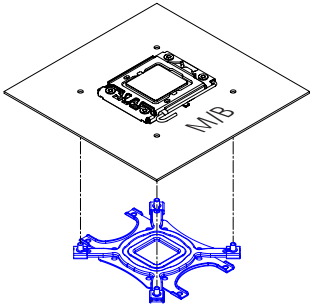
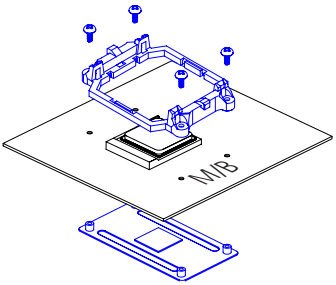
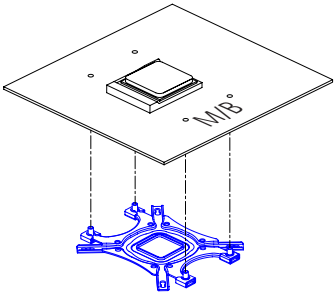


Caution

Please make a note of the orientation of the Loading Block.

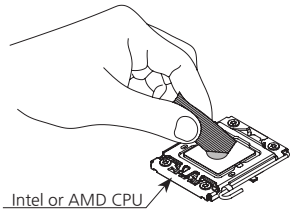
D. Backplate Installation

※ Intel Socket 2011 Installation does not require the Backplate.

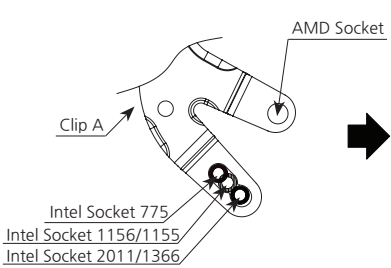
Intel Socket 1366/1156/1155/775	AMD Socket FM1/AM3+/AM3/AM2+/AM2
- Align the Backplate's nuts with motherboard's clip support holes, attach it to the back side of the motherboard.	① Take away the fixed Clip support from the motherboard.
	
	② Align the Backplate with motherboard's clip support holes, attach it to the back side of the motherboard
	

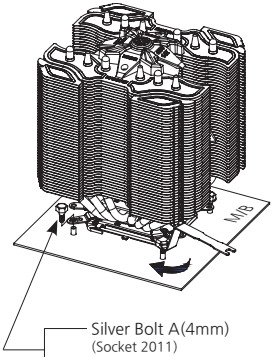
E. Cooler Installation

① Apply a suitable amount of the included Thermal Grease on the CPU's surface.



② Place the bolt on the connection position of the clip A, adjust the bolt slightly, and then fasten it with a Spanner. (Use the designated bolts for each socket.)





Tip

To install easily, place the bolt at the end of the Spanner and align it with the connection position.

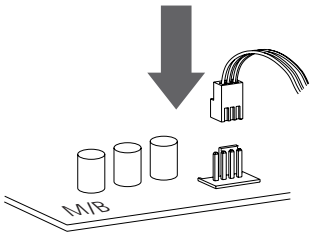
Caution

When connecting, be careful not to use the wrong size bolt. The silver bolt A and B are very similar in appearance, thus causing confusion.

Silver Bolt A(4mm)
(Socket 2011)

Silver Bolt B(3mm)
(Socket 1366/1156/1155/775/AMD)

③ Connect the cooler's 4-pin connector to the motherboard's CPU Fan header.

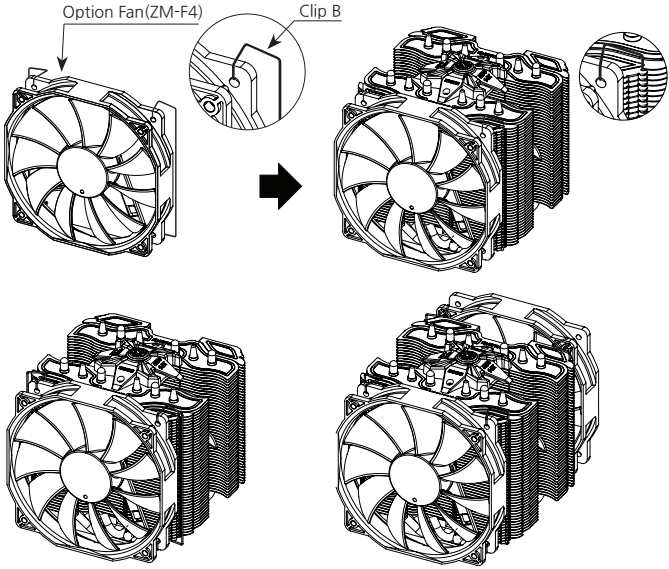


Caution

After installing, be sure to activate the PWM control mode in BIOS on the motherboard.

F. Optional Fan Installation (Optional)

※ To install an optional fan, you should purchase it separately. Hang the fan clips on the housing hole of the optional fan and on the grooves at the end of both pins of the cooler. (You can install a maximum of two 140 mm fans.)



[One Optional Fan] [Two Optional Fan]